

**Amendments to the Claims**

This listing of claims will replace all prior versions and listings of claims in the application:

**Listing of Claims:**

Claims 1-8 (Cancelled).

9(Previously presented). A method for increasing the permeability of the blood brain barrier, comprising administering to a subject a composition comprising a nitric oxide synthase-3 regulating agent which is a nitric oxide synthase-3 activator or a nitric oxide donor in a manner by which the nitric oxide synthase-3 regulating agent is delivered in an amount effective to transiently increase the permeability of the blood brain barrier, wherein the administering step administers to the subject a composition comprising a nitric oxide synthase-3 regulating agent associated with a targeting molecule specific for cells forming the blood brain barrier.

10(Original). The method in accordance with claim 9, wherein the targeting molecule is a ligand or an antibody molecule.

11(Original). The method in accordance with claim 9, wherein the cells to which the targeting molecule is specific are brain microvascular endothelial cells.

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12(Original). The method in accordance with claim 9, wherein the administering step is systemic administration to a subject.

Claim 13 (Cancelled).

14(Previously presented). The method in accordance with claim 9, wherein the nitric oxide synthase-3 regulating agent is in association with both a targeting molecule and a neurologically active therapeutic compound for delivery into the central nervous system following an increase in the permeability of the blood brain barrier.

15(Previously presented). The method in accordance with claim 9, wherein the nitric oxide synthase-3 regulating agent is in association with both a targeting molecule and a diagnostic compound for delivery into the central nervous system following an increase in the permeability of the blood brain barrier.